

WHAT IS CLAIMED IS:

1. A surge absorber comprising:

an insulator block including a first internal electrode film, a second internal electrode film, and a discharge hole located in proximity to the first and second internal electrode films;

a ground external electrode layer provided on at least one side surface of the insulator block so as to be connected with an end of the first internal electrode film;
and

signal external electrode layers provided on both end surfaces of the insulator block so as to be connected with both ends of the second internal electrode film.

2. A surge absorber according to claim 1, further comprising a resistor film on at least one end surface of the insulator block, the resistor film being connected between one of the ends of the second internal electrode film and one of the signal external electrode layers.

3. A surge absorber array comprising:

an insulator block including a first internal electrode film, a plurality of second internal electrode films, and at least one discharge hole located in proximity to the first internal electrode film and the plurality of second internal electrode films;

a ground external electrode layer provided on at least one end surface of the insulator block so as to be connected with an end of the first internal electrode film;
and

signal external electrode layers provided on both side surfaces of the insulator block so as to be independently connected with both ends of each of the second internal electrode films.

4. A surge absorber according to claim 3, further comprising a resistor film on at least one end surface of the insulator block, the resistor film being connected between one of the ends of the second internal electrode film and one of the signal external electrode layers.

5. A surge absorber comprising:
a laminated compact of a first insulator sheet having a first internal electrode film, a second insulator sheet having a second internal electrode film, and a third insulator sheet between the first and second insulator sheets having a discharge hole;
a ground external electrode layer provided on at least one side surface of the laminated compact so as to be connected with an end of the first internal electrode film; and
signal external electrode layers provided on both end surfaces of the laminated compact so as to be connected with both ends of the second internal electrode film.

6. A surge absorber according to claim 5, further comprising a resistor film on at least one end surface of the laminated compact, the resistor film being connected between one of the ends of the second internal electrode film and one of the signal external electrode layers.

7. A surge absorber array comprising:
a laminated compact of a first insulator sheet having a first internal electrode film, a second insulator sheet having a plurality of second internal electrode films, and a third insulator sheet between the first and the second insulator sheets having at least one discharge hole;
a ground external electrode layer provided on at least one end surface of the laminated compact so as to be connected with an end of the first internal electrode film; and

signal external electrode layers provided on both side surfaces of the laminated compact so as to be independently connected with both ends of each of the second internal electrode films.

8. A surge absorber according to claim 7, further comprising a resistor film on at least one end surface of the laminated compact, the resistor film being connected between one of the ends of the second internal electrode film and one of the signal external electrode layers.

9. A surge absorber comprising:

a laminated compact of a first insulator sheet having a second internal electrode film and a first internal electrode films on both sides of the second internal electrode film, and a second insulator sheet having a discharge hole located in proximity to the first internal electrode films and the second internal electrode film;

a ground external electrode layer provided on each or both side surfaces of the laminated compact so as to be connected with one end of each of the first internal electrode films; and

signal external electrode layers provided on both end surfaces of the laminated compact so as to be connected with both ends of the second internal electrode film.

10. A surge absorber according to claim 9, further comprising a resistor film on at least one end surface of the laminated compact, the resistor film being connected between one of the ends of the second internal electrode film and one of the signal external electrode layers.

11. A surge absorber comprising:

a laminated compact of a first insulator sheet having a first internal electrode film, a second insulator sheet having a second internal electrode film, and a third insulator sheet between the first and the second insulator sheets having a discharge hole;

a resistor film provided on a surface of the laminated compact;

a ground external electrode layer provided on at least one side surface of the laminated compact so as to be connected with an end of the first internal electrode film;

a first signal external electrode layer provided on one end surface of the laminated compact so as to be connected with an end of the second internal electrode film and one end of the resistor film; and

a second signal external electrode layer provided on the other end surface of the laminated compact so as to be connected with the other end of the resistor film.

12. A surge absorber according to claim 11, wherein the resistor film is asymmetrical in plan view with respect to a line extending between both side surfaces of the laminated compact.

13. A surge absorber comprising

a laminated compact of a first insulator sheet having a first internal electrode film, a second insulator sheet having a second internal electrode film, a third insulator sheet between the first and second insulator sheets having a discharge hole, and a fourth insulator sheet having a resistor film;

a ground external electrode layer provided on at least one side surface of the laminated compact so as to be connected with an end of the first internal electrode film;

the first signal external electrode layer provided on one end surface of the laminated compact so as to be connected with an end of the second internal electrode film and one end of the resistor film; and

the second signal external electrode layer provided on the other end surface of the laminated compact so as to be connected with the other end of the resistor film.

14. A surge absorber according to claim 13, wherein the resistor film is asymmetrical in plan view with respect to a line extending between both side surfaces of the laminated compact.